

# CMS Simulation (LHE) 13 TeV

Fraction of events / 1 GeV

$pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$   
 $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$   
 $m_{\gamma_D} = 0.275 \text{ GeV}, c\tau_{\gamma_D} = 0.5 \text{ mm}$

— 1st dark photon (leading  $p_T$ )

— 2nd dark photon

0.12

0.1

0.08

0.06

0.04

0.02

0

$|p_z| \text{ of } \gamma_D \text{ [GeV]}$

